PATENT APPLICATION

Sheet 1 of 4

					Larry poorer us	APPLICATION NO CONTROL ATE	_			
FO	RM I	PTO-1449			10981988-3	APPLICATION NO. CONFIRMATION	ON NC			
us	ST OI	F PATENTS AND P	JBLICATIONS FOR		APPLICANT					
		ANT'S INFORMATI	ON DISCLOSURE		Ramaswami et al					
					FILING DATE	GROUP				
	(1	Jse several sheets	r necessary)		Aug 19, 2003		_			
REFERE	NCE	DESIGNATION	U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appea	ar_			
Om	1A	5,589,865	Dec 31, 1996	Be	eson		_			
BA	1B	5,442,384	Aug 15 1995	Sc	hantz					
BM	1C	5,160,945	Nov 3, 1992	Dr	ake					
BM	1D	5,098,503	Mar 24, 1992	Dr	ake		_			
BM	1E	5,016,023	May 14,1991	Ch	an		_			
Bry	1F	4,862,197	Aug 29, 1989	Sto	offel		_			
BM	1G	4,680,859	Jul 21, 1987	Jo	hnson					
BM	_	4,491,606	01-1985	Ro	sier et al					
BY		5,478,606	12-1995	Ot	nkuma et al		_			
Bm	1J	5,980,017	11-1999	Sa	to		_			
13m	1K	6,036,874	03-2000	Fa	rnaam	,	_			
		DOCUMENT NUMBER	PUBLICATION DATE		N PATENT DOCUME NAME OF PATENTEE OR APPLICANT	Daniel Columns II Inna Milhoro	Check in			
Mcs	1L	0 564 102 A2	Oct 6, 1993	Allen						
PM	1 M	EPo783970A2	Jul 16, 1997	Sato		·				
	1N									
	10									
	1P									
	·	OTHER REF	ERENCES (includ	ing A	uthor, Title, Date, P	Pertinent Pages, etc.)				
	10	Q Kovacs, Micro	omachined Transdu	icers S	ourcebook, 1998, Mo	:Graw-Hill, pgs. 77-88				
	11	R								
	1	s								
EXAM	INER				DATE CONSIDER	æ				
		Bla must	S			2/24/204				

Rev 05/03 (PTO1449)

PATENT APPLICATION

Sheet 2 of 4

FORM PTO-1449					ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMAT	ON NO		
		F PATENTS AND PU	BLICATIONS FOR		10981988-3 APPLICANT						
AF	PLIC	ANT'S INFORMATION	ON DISCLOSURE		Ramaswami et al						
		STATE			FILING DATE GROUP						
	((Jse several sheets if	necessary)		Aug 19, 2003						
REFERE	NCE	DESIGNATION	U.S. P	ATEN	T DOCUMENTS						
EXAMINER DOCUMENT INITIAL NUMBER			PUBLICATION DATE		NAME		Pages, Columns, Lines Where Relevant Passages or Figures Appea				
Bm	2A	6,162,589	12-2000	Ch	en et al						
BM	2B	3,852,563	12/3/1974	Bol	horguez et al						
13M	2C	4,438,191	3/20/1984	Clo	outier				_		
BM	2D	4,809,428	3/7/1989	Ad	en				_		
BM	2E	4,847,630	7/11/1989	Bha	askar						
BM	2F	4,851,371	7/25/1989	Fis	her				_		
BM	2G	4,875,968	10/24/1989	0'1	Neill						
By	2H	4,894,664	1/16/1990	Tsi	ung Pan				_		
BM	21	5,041,190	8/20/1991	Dra	ake						
BM	2J	5,160,577	11/3/1992	De	shpande						
BM	2K	5,194,877	3/16/1993	La	m						
		DOCUMENT NUMBER	PUBLICATION DATE		AME OF PATENTEE OR APPLICANT		Pages/Columns/Line levant Passages/Figu		Check if Translation		
BM	2L	JP0040052144	2/1992	Seiko	Epson Corp						
BM	2M	JP5995156A	10/1984	Hewle	ett-Packard Co.	\top					
BM	2N	JP0610098557	5/1986	Ricoh	со						
Bm	20	JP62094347A	April 1987	Ricoh	Seiko KK						
BM	2P	E0783970A2	July 1997	Canor	n Kabushiki						
	20		ERENCES (includ	ing Au	uthor, Title, Date, Pe	ertin	ent Pages, etc.)				
	2	R									
	2	s									
EXAM	INER				DATE CONSIDER	ŒD					
Rev 05/03 (<u> </u>	on Manto	<u> </u>		21	24	12004				

PATENT APPLICATION

Sheet 3 of 4

FORM PTO-1449 UST OF PATENTS AND PUBLICATIONS FOR					ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMATION	NO.
					10981988-3				
		ANT'S INFORMATI	ON DISCLOSURE		APPLICANT Pamagyami et al.				
		STATE	MENT		Ramaswami et al FILING DATE GROUP				
	(1	Use several sheets i	f necessary)		Aug 19, 2003				
REFERE	NCE	DESIGNATION	U.S. F	PATEN	T DOCUMENTS				
EXAMINER INITIAL			PUBLICATION DATE		NAME		Pages, Columns, Lines Where Relevant Passages or Figures Appear		
BM	за	5,308,442	5/3/1994	Tau	ıb				
PM	3B	5,306,307	4/26/1994	Hei	rko				
Can	3C	5,317,346	5/31/1994	Gar	rcia				
Bn	3D	5,851,412	12/22/1998	Kut	oby				
BM	3E	6,153,114	11/28/2000	Fig	uerdo			· · · · · · · · · · · · · · · · · · ·	
BM	3F	6,137,443	10/24/2000	Bea	atty	\neg			
BM	3G	6,204,182	3/20/2001	Tru	ninger				
BM	3Н	6,365,058	4/2/2002	Bea	atty				
BM	31	6,099,106	8/8/2000	We	rner				
BM	33	6,325,488	Dec 4, 2001	Bee	erling et al				
BM	3K	6,303,274	Oct 16, 2001	Che	en et al	_			
		DOCUMENT NUMBER	PUBLICATION DATE		AME OF PATENTEE OR APPLICANT	Rei	Pages/Columns/Lines levant Passages/Figur	Where Trans	ck if slation ched
BM	3L	DE19536429A1	April 1997	Sieme	ns AG	_			
131	3М	EP0244214A1	4/1987	Hewle	tt-Packard CO.	_			_
	3N				· · · · · · · · · · · · · · · · · · ·	<u> </u>			_
	30								
	3P								
		OTHER REFE	ERENCES (includi	ing Au	thor, Title, Date, Pe	ortin	ent Pages, etc.)		
	30								- .
	3F	1							
	35								
EXAMI	NER	<u> </u>	Λ		DATE CONSIDERED				
Rev 05/03 (PI	TO144	Blan M	mt		2	12	1/2004		

PATENT APPLICATION Sheet 4 of 4

					ATTY, DOCKET NO.	Т	APPLICATION NO.	CONFIRMATION	NO
FC	ORM	PTO-1449			10981988-3		AT LIGHT HOLT HO.	CONTINUATION	NC
LI:	ST O	F PATENTS AND P	UBLICATIONS FOR		APPLICANT				
		ANT'S INFORMAT			Ramaswami et al				
					FILING DATE		GROUP		
		Use several sheets	if necessary)		Aug 19, 2003				
REFERE	NCE	DESIGNATION	U.S. PA	ATEN	T DOCUMENTS			_	
EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME	ı	Pages, Columns, Lines Where Relevant Passages or Figures Appear		
BM	4A	6,000,787	Dec 14, 1999	We	eber et al				
(BM	4B	20030082841 May 1, 2003		Ha	luzak et al				
BM	4C	4,558,333	Dec 1985	Su	gitani et al				
BM	4D	5,738,799	Apr 1998	Ha	wkins et al				
BY	4E	6,162,589	Dec 2000	Ch	en et al				
Bn	4F	6,482,574-B1	Nov 2002	Rm	naswami et al				
BM	4G	6,485,132-B1	Nov 2002	Hir	oki et al				
	4H								
	41								
	4J								
	4K								
	4L	DOCUMENT NUMBER			AME OF PATENTEE OR APPLICANT		Pages/Columns/Line evant Passages/Fig	es Where	eck if islatio ached
	4M		-			\dagger			
	4N								
	40		1			1-			
	4P	 				\top			
	.•	OTHER REF	FERENCES (includi	ng Au	ıthor, Title, Date, Pe	ertine	ent Pages, etc.)		
	40	Q							
	41	R							
***	4	s				-			•
EXAM	INER	_1			DATE CONSIDER	ÆD			•
<i></i>	N	da MA	_		2/	24	12004		
Rev 05/03 (PTO14	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		1 41	~ 1/	100		•